

Control
  Marquage spécifique

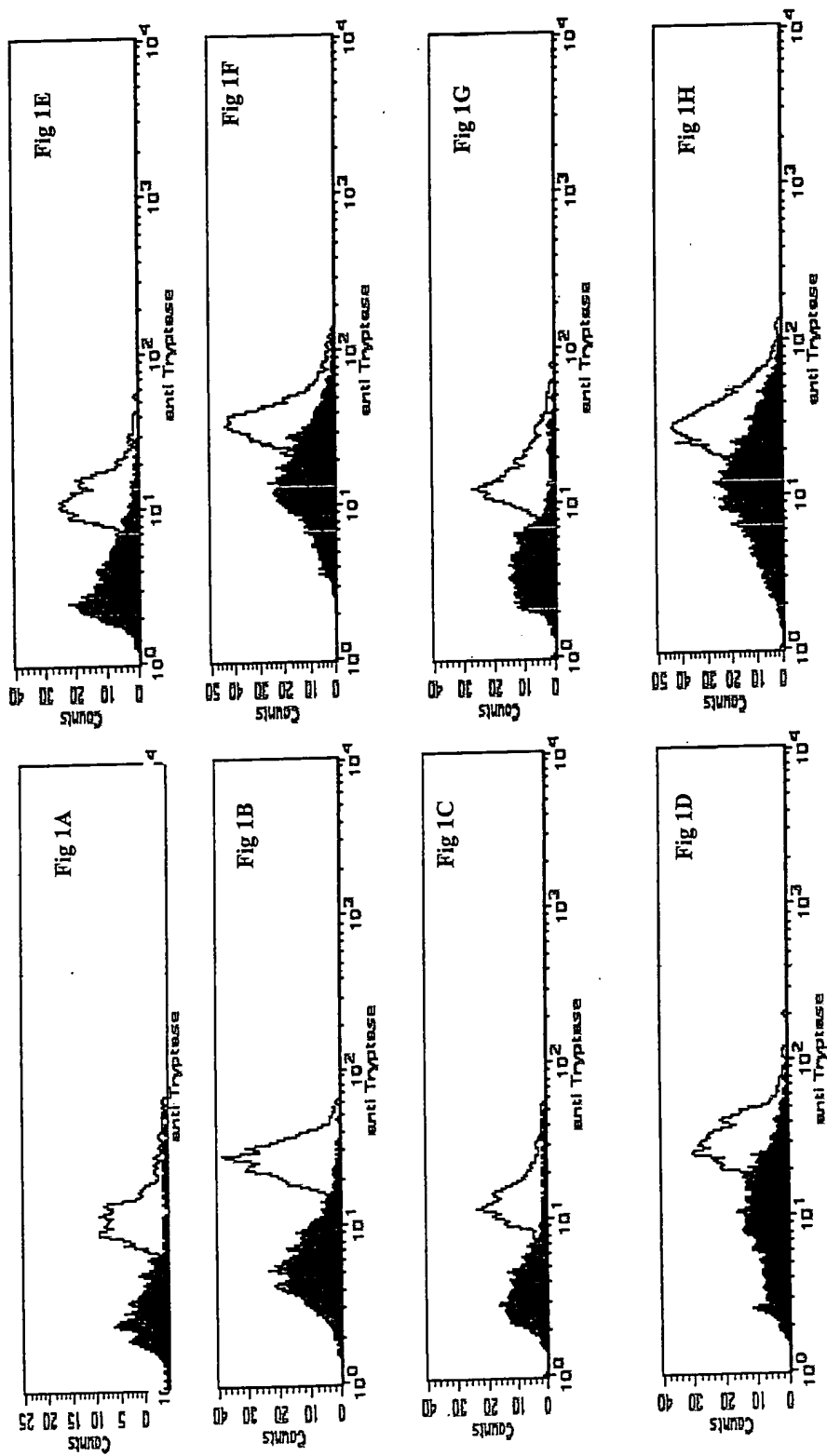


FIGURE 1

Non marqué
  control
  Marquage spécifique

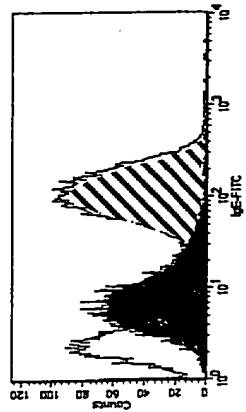


Fig 2A

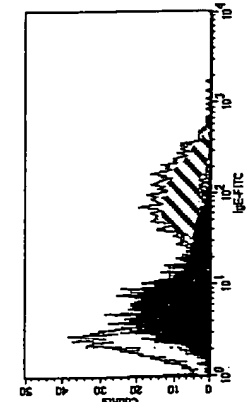


Fig 2B



Fig 2C

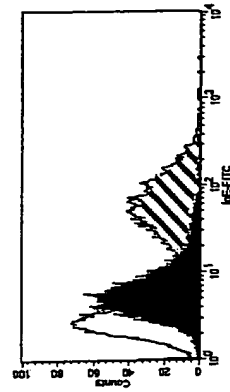


Fig 2D

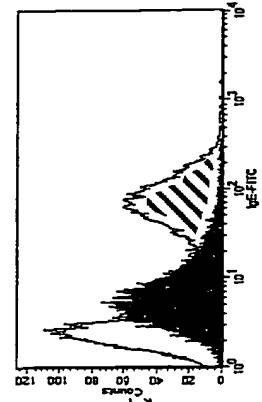


Fig 2E

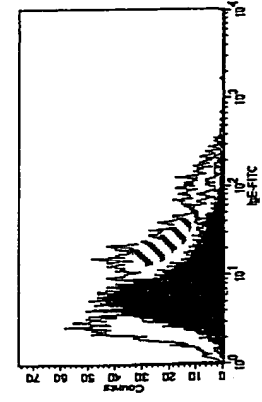


Fig 2F

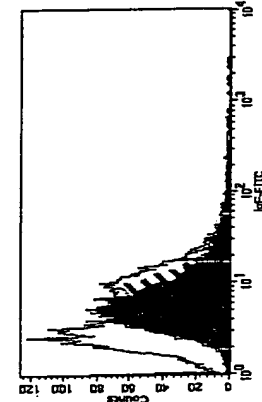


Fig 2G

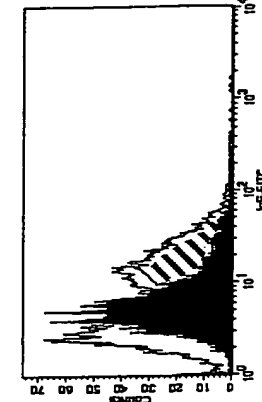


Fig 2H

FIGURE 2

control Marquage spécifique

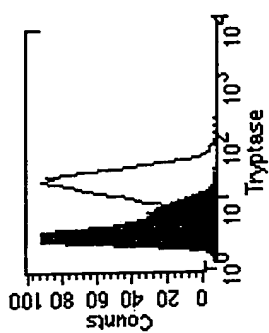


Fig 3D

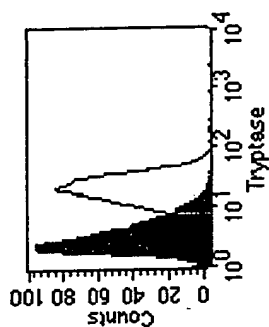


Fig 3C

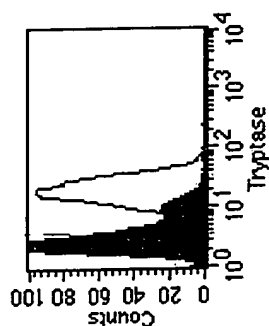


Fig 3B

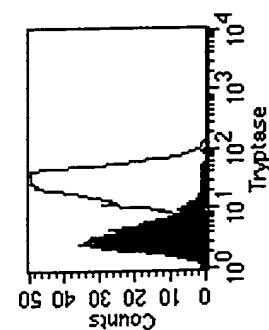


Fig 3A

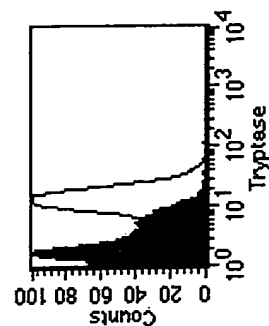


Fig 3H

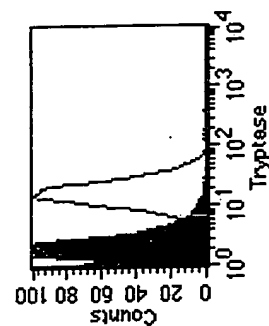


Fig 3G

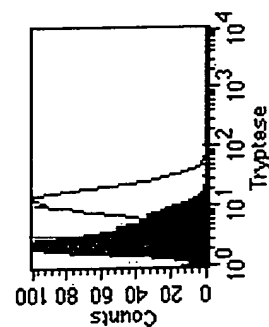


Fig 3F

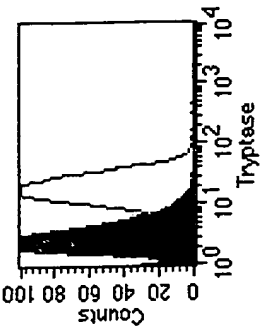


Fig 3E

FIGURE 3

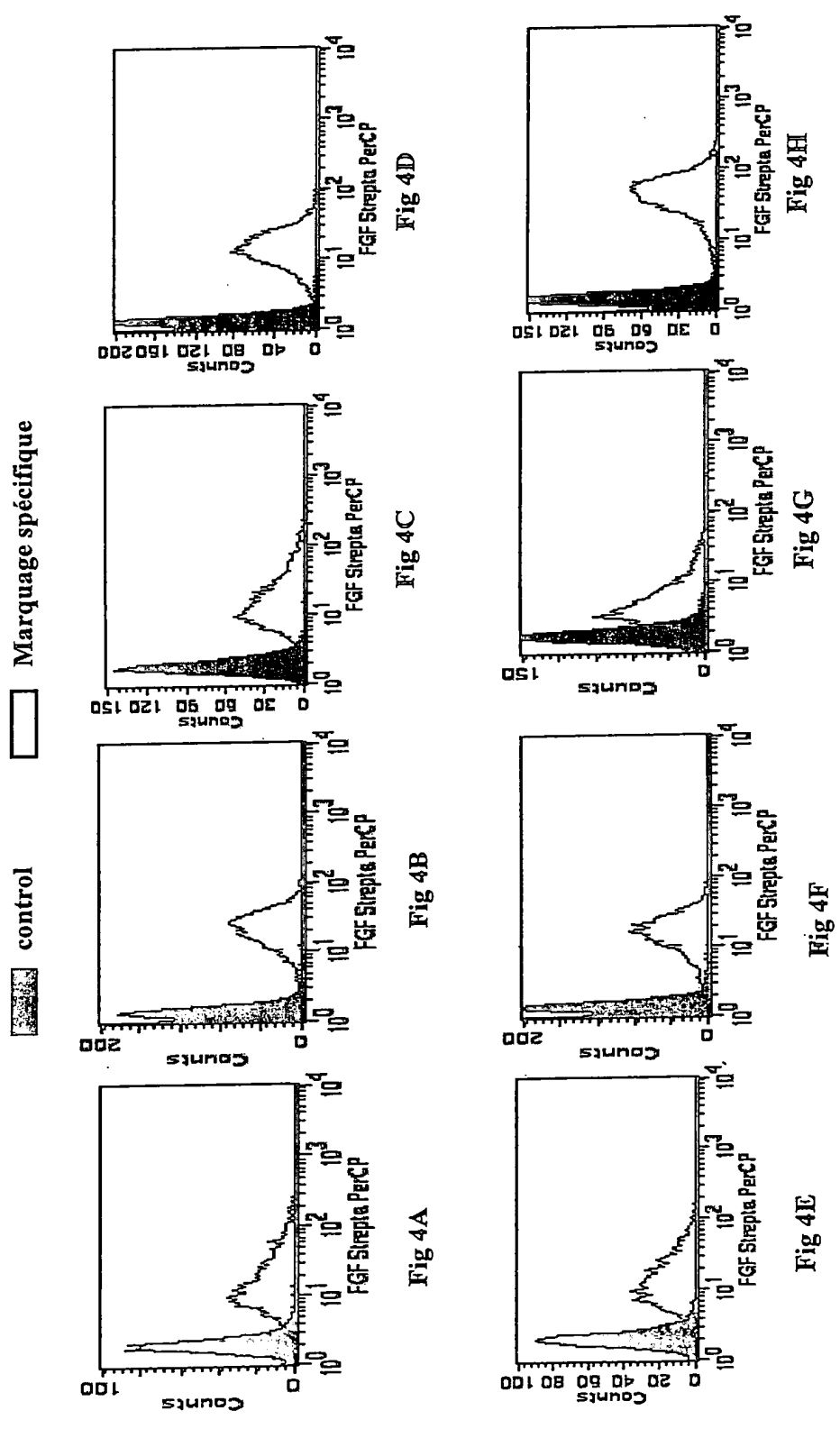


FIGURE 4

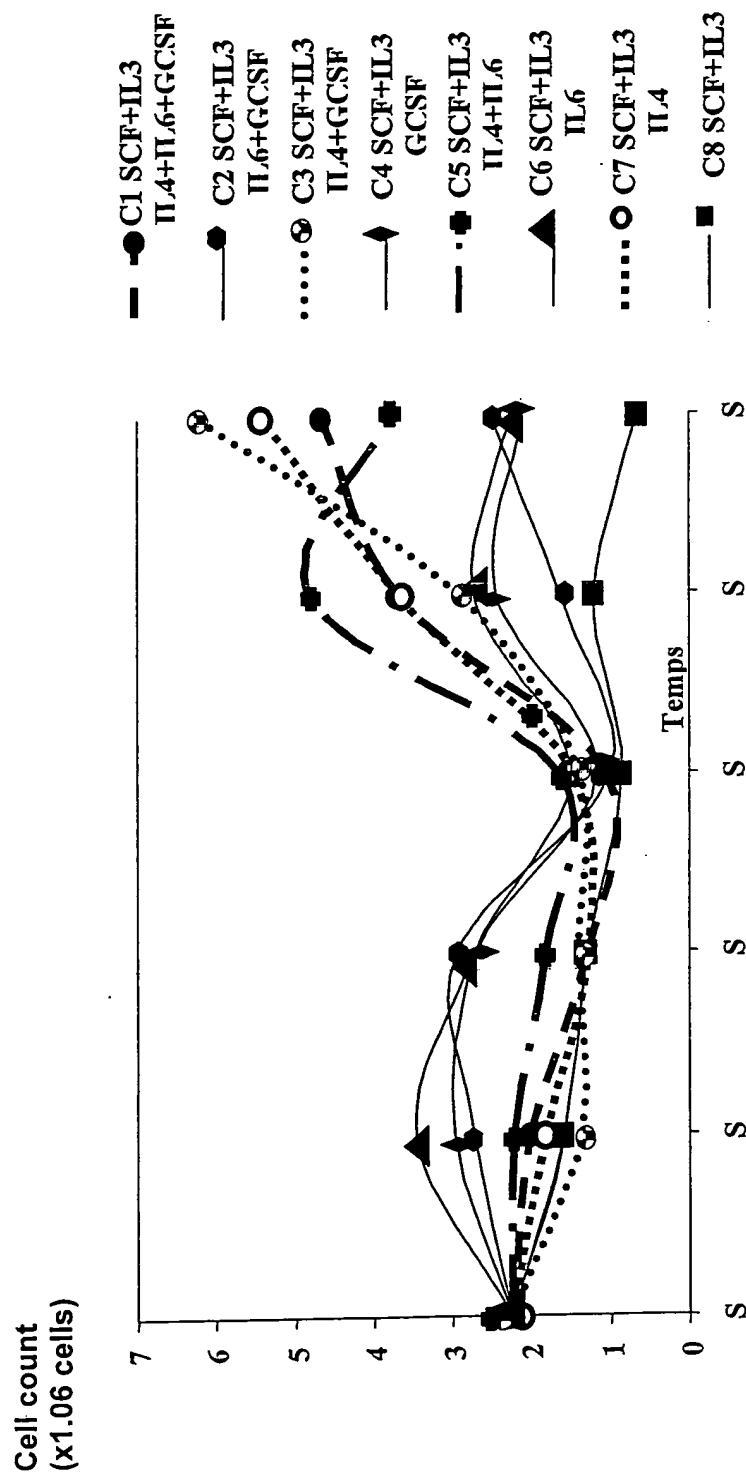


Figure 5

FIGURE 5

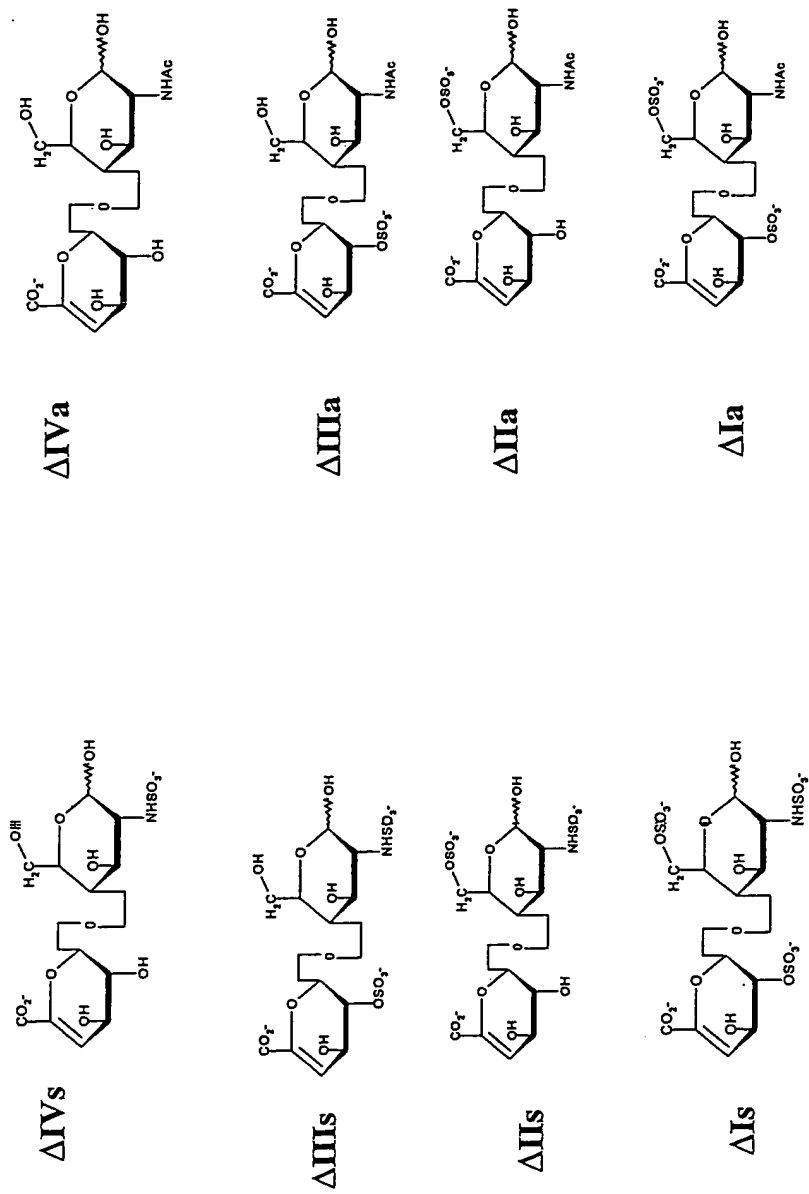


Figure 6

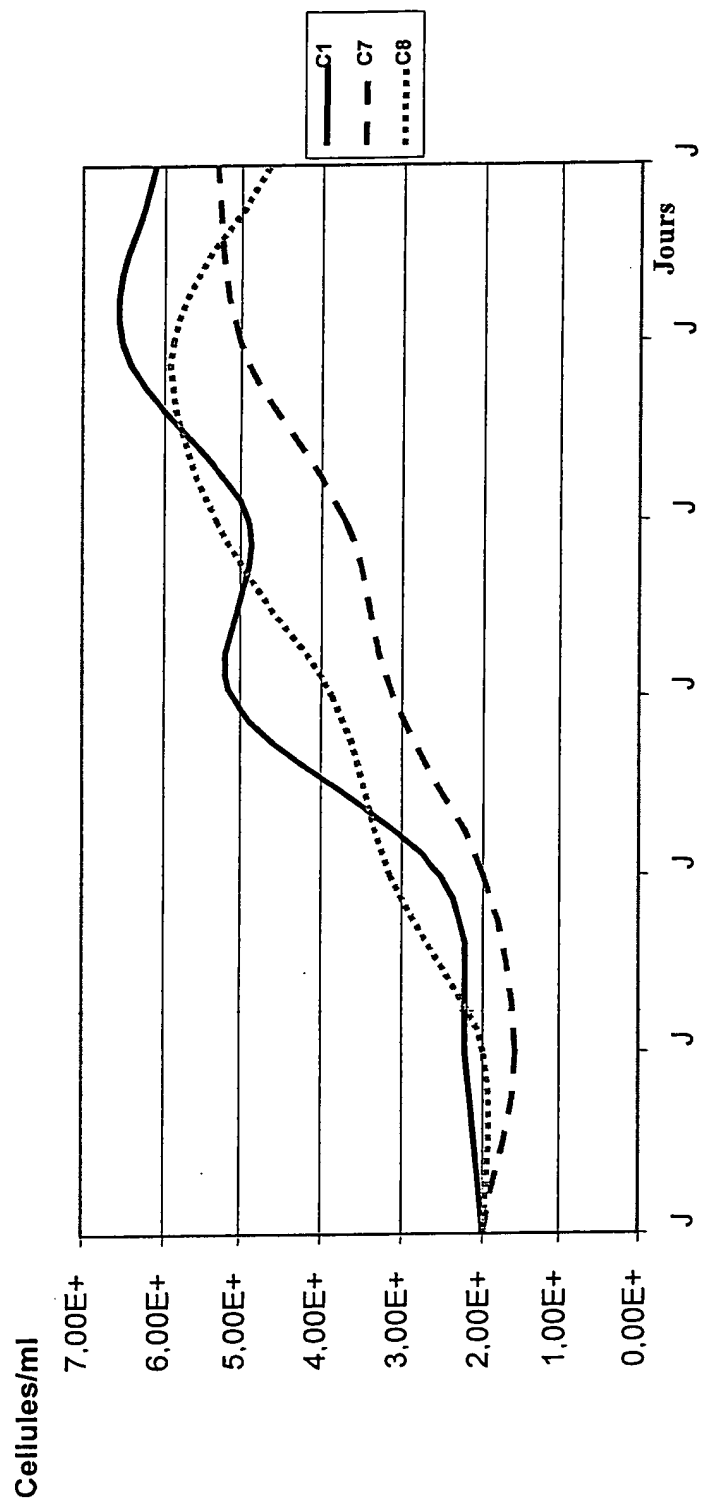


Figure 7

HPLC analysis of the disaccharides obtained from the isolated cultures after 15 weeks

Disaccharides%	C1	C2	C3	C4	C5	C6	C7	C8	Standard heparin reference
Ivs	12.9	8.6	9.9	10.1	10.5	9.8	6.6	7.6	4.1
Iia	3.9	4.0	4.7	3.9	3.9	4.1	4.2	2.9	4.0
IIIa	0.7	2.2	1.2	2.9	0.9	2.4	0.5	1.6	1.1
Iis	16.3	8.5	18.2	7.6	16.7	8.0	17.4	8.0	10.6
IIIs	12.4	23.7	14.0	26.8	12.2	26.2	13.2	24.6	6.4
Ia	0.3	0.4	0.8	0.5	0.5	0.5	0.4	0.4	1.4
Is	53.6	52.6	51.2	48.2	55.2	49.0	57.7	54.8	55.9
Sulfates/carboxylates $\mu\text{g}/10^6$ cells	2.36	2.38	2.35	2.31	2.40	2.33	2.46	2.43	2.38
	3.3	9.4	0.9	14.3	1.6	9.4	2.3	8.6	

FIGURE 8



Productivity and disaccharide profile of mastocyte lines in culture for various species					
% disaccharides	Porcine mastocytes	MST Murine mastocytes	HMC1 Human mastocytes	Heparin Standard	
IV-a	4.8	7.7	7.2	5.4	
IV-s	6.6	8.3	0.0	3.6	
II-a	5.9	8.2	3.8	4.0	
III-a	0.7	4.4		1.2	
II-s	17.9	19.7	16.2	10.8	
III-s	9.0	7.6	2.1	6.4	
I-a	0.6		0.7	1.4	
I-s	54.4	40.3	41.0	57.0	
Mass of heparin per 10 <sup>6</sup> cells	2.6 µg	0.11 µg	0.05 µg		

FIGURE 9

Disaccharide profile during culturing (D0 to D10), culture conditions C1						
% Disaccharides	D0/C1	D4/C1	D7/C1	D10/C1	Reference	
IV-a	4.8	4.4	4.8	4.9	5.4	
IV-s	5.7	7.2	6.8	6.6	3.6	
II-a	5.0	6.3	5.9	5.6	4.0	
III-a	0.6	0.5	0.7	0.9	1.2	
II-s	17.1	17.1	16.6	16.7	10.8	
III-s	7.3	7.4	8.6	9.2	6.4	
I-a	0.4	0.5	0.7	0.7	1.4	
I-s	59.2	56.6	55.9	55.4	57.0	
Heparin /10 <sup>6</sup> cells (in µg)	2.4	2.1	2.4	2.1		

FIGURE 10